

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/018,625	03/07/2002	Marcel Aeschlimann	FRR-12806	5185	
40854	7590 05/19/2004		EXAMINER		
	ILL, PORTER & CLA	GARCIA, ERNESTO			
4080 ERIE STREET WILLOUGHBY, OH 44094-7836			ART UNIT	PAPER NUMBER	
			3679	-	
			DATE MAILED: 05/19/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	tion No.	Applicant(s)	
	Office Asticus Co	10/018,6	625	AESCHLIMANN ET	AL.
	Office Action Summary	Examine	er	Art Unit	7
	·	Ernesto		3679	
Period fo	The MAILING DATE of this communic or Reply	ation appears on th	ne cover sheet with the	correspondence addr	ess
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC missions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply within the set or extended peri	ATION. 37 CFR 1.136(a). In no e ication. days, a reply within the structure or a reply apply and will apply and will by statute, cause the arm.	event, however, may a reply be ti atutory minimum of thirty (30) da will expire SIX (6) MONTHS fror volication to become ABANDON	mely filed ys will be considered timely. the mailing date of this comi	munication.
Status					
1)	Responsive to communication(s) filed	on 04 March 2004	1		
) This action is	=		
	Since this application is in condition for	•		osecution as to the m	norite ie
,—	closed in accordance with the practice				ients is
Dispositi	ion of Claims	-			
	Claim(s) 20-32 is/are pending in the a	oplication			
	4a) Of the above claim(s) <u>20-26,31 and</u>	·	wn from consideration		
	Claim(s) is/are allowed.	202 10/010 William	with from consideration.		
	Claim(s) <u>27-30</u> is/are rejected.				
	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction	on and/or election	requirement		
Applicati	on Papers		1		
	The specification is objected to by the I				
Ю	The drawing(s) filed on <u>08 March 2004</u>				
	Applicant may not request that any objection				
11)[]	Replacement drawing sheet(s) including the	e correction is requi	red if the drawing(s) is ob	jected to. See 37 CFR	1.121(d).
11/	The oath or declaration is objected to b	y the Examiner. N	ote the attached Office	Action or form PTO	-152.
Priority u	ınder 35 U.S.C. § 119				
	Acknowledgment is made of a claim for	foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).	
a)[☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority do	cuments have bee	en received.		
	2. Certified copies of the priority do				
	3. Copies of the certified copies of	the priority docum	ents have been receive	ed in this National Sta	age
	application from the International		` ''		
* 5	See the attached detailed Office action f	or a list of the cert	ified copies not receive	ed.	
	t(s)				
Attachment	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)	
Attachment 1) ⊠ Notica 2) □ Notica	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC		Paper No(s)/Mail Da	ate	
Attachment 1) ⊠ Notice 2) □ Notice 3) □ Inform	e of References Cited (PTO-892)			ate	52)

DETAILED ACTION

Drawings

The drawings were received on 3/8/04. These drawings are acceptable.

Election/Restrictions

Claims 20-26, 31, and 32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 10 filed on 9/15/03. Claims 20-26 are not readable on the elected species 6b. The method of anchoring the joining element in Figure 6b requires that a force and ultrasound be simultaneously applied (see paragraph 041, lines 8-10). Claims 31-32 do not contain a ring of sharp-ended elements and therefore do not read on Figure 6b.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Art Unit: 3679

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 27-29 are rejected under 35 U.S.C. 102(a) as being anticipated by PCT publication, WO98/42988, Aeschlimann et al. (see marked-up attachment).

Regarding claim 27, Aeschlimann et al. disclose, in Figure 7, a combination of a joining element 3.3 and a body 1. The body 1 comprises a porous material (see English Abstract). The joining element 3.3 comprises a first end portion A3 and a second end portion A4. The first end portion A3 comprises a thermoplastic material and the first end portion A3 includes a pointed end A5 or a cutting edge A5. Applicant is reminded that the method of forming the combination is not germane to the issue of patentability of the device itself. Therefore, this limitation has been given limited patentable weight. See MPEP '2113.

Regarding claim 28, the joining element **3.3** is pin-shaped and has at least two areas **A7,A17** with different cross-sections **A8,A18**.

Regarding claim 29, one of the cross-sections A8,A18 is round or polygonal.

Regarding claim 27, Aeschlimann et al., disclose, in Figure 3 (see marked-up attachment to Fig. 3), a combination of a joining element 3 and a body 1. The body 1 comprises a porous material (see English Abstract). The joining element 3 comprises a

first end portion **A3** and a second end portion **A4**. The first end portion **A3** comprises a thermoplastic material and the first end portion **A3** includes a pointed end or a cutting edge. Applicant is reminded that the method of forming the combination is not germane to the issue of patentability of the device itself. Therefore, this limitation has been given limited patentable weight. See MPEP '2113.

Regarding claim 28, the joining element 3 is pin-shaped and has at least two areas with different cross-sections **A20**, **A21**. One cross-section is smaller than the other cross-section, thus different.

Regarding claim 29, one of the cross-sections A20,A21 is round or polygonal.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over PCT document, WO98/42988 (Aeschlimann et al., see marked-up attachment), in view of Japanese patent, JP-5-245,941.

Art Unit: 3679

Regarding claim 30, Aeschlimann et al., as discussed above with respect to Figure 3, fails to disclose at least one of the areas A20 comprising energy-directing elements in the form of axially-extending ribs. The Japanese patent teaches in Figure 3 at least one of the areas 1 comprising energy-directing elements in the form of axially-extending ribs (see Fig. 3B). The English abstract does not specify the reason for placing ribs in at least one of the areas. However, it appears that placing the ribs prevents, as a safety feature, the pin to be removed from the joining element in case an ultrasound joint fails. Therefore, as taught by the Japanese patent, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include at least one of the areas comprising energy-directing elements in the form of axially-extending ribs in order for the pin to remain in the joint in case the ultrasound joint fails.

Response to Arguments

Applicant's arguments with respect to claims 27-30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

Art Unit: 3679

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ernesto Garcia whose telephone number is 703-308-8606. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on 703-308-2686. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 3679

Page 7

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

E.G.

May 3, 2004

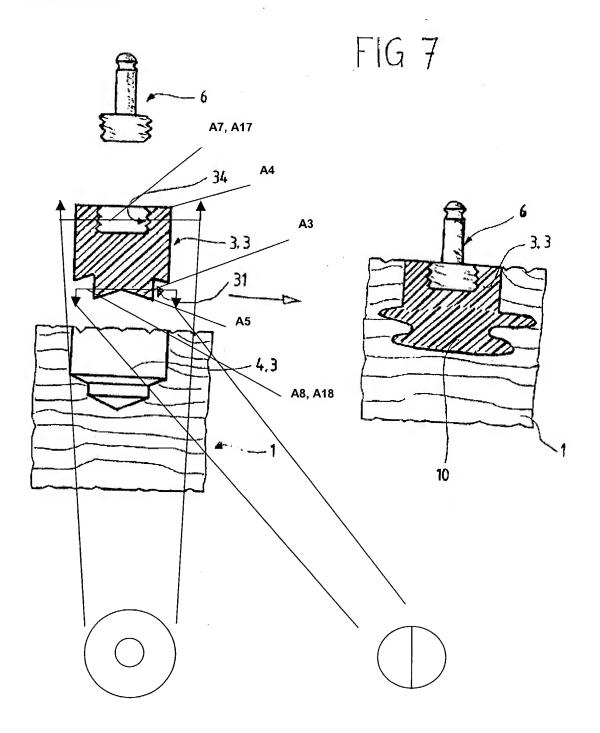
DANIEL P. STODOLA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

and P Stodola

Attachment: two marked-up copies of PCT document, WO-98/42988.

Art Unit: 3679

WO 98/42988



Art Unit: 3679

WO98/42988

